| A. vane (90) restraining means by a friction fit between the vane tip (98) and |
|--|
| groove walls (155) when received into the groove (150) or by application of an adhesiv |
| or a mechanical fixing means between the vane tip (98) and the groove walls (155); |

B. at least two depressions or at least two grooves (150) are formed in the inner wall (140) with each of said grooves (150) receiving at least one vane (90).

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37. (Original) A waste liquid treatment system of claim 36 further comprising:

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A. the at least one vane (90) having a vane surface (92);

9 10 B. the at least one vane (90) extending from the central core element (25) along the length of said central core element (25); the surface (92) covered with a biofilm (97);

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C. the at least eight vanes (90) are spaced equidistant from the adjoining vane (90) and extend from the central core element (25).

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38. (Original) A waste liquid treatment system of claim 37 further comprising:

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A. at least four fins (200) extending from said outer wall (190);B. the fin (200) is generally elongated having a fin surface (210);

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C. the plurality of tubes (20) contact adjacent tubes (20) at the respective tube outer walls (190) at least one contact point (195) where affixing means fix adjacent tubes together and hence to fix the position of the plurality of tubes (20) within the media

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matrix (1).

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22 39. (Original) A waste liquid treatment system of claim 37 further comprising:

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A. contact point (195) affixing means including adhesives, mechanical fasteners and other methods or devices:

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B. at least fins 1...n extending outwardly from the outer wall (190);

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Floyd E. Ivey in response to Office Action of June 4, 2004.

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